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RAW SEQUENCE LISTING PATENT APPLICATION US/08/921,060A

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This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING 1 2 **ENTERED** (1) General Information: (i) APPLICANT: ANDERSON, DARRELL R. HANNA, NABIL LEONARD, JOHN E. NEWMAN, ROLAND A. REFF, MITCHELL E. 9 RASTETTER, WILLIAM H. 10 11 (ii) TITLE OF INVENTION: THERAPEUTIC APPLICATION OF CHIMERIC AND 12 RADIOLABELED ANTIBODIES TO HUMAN B LYMPHOCYTE RESTRICTED 13 DIFFERENTIATION ANTIGEN FOR THE TREATMENT OF B CELL 14 LYMPHOMA 15 16 (iii) NUMBER OF SEQUENCES: 11 17 1.8 (iv) CORRESPONDENCE ADDRESS: 19 (A) ADDRESSEE: PILLSBURY WINTHROP 20 (B) STREET: 1100 New York Avenue, N.W., Ninth FL. 21 (C) CITY: Washington 22 (D) STATE: DC 23 (E) COUNTRY: USA 24 (F) ZIP: 20005 25 26 (v) COMPUTER READABLE FORM: 27 (A) MEDIUM TYPE: Floppy disk 28 (B) COMPUTER: IBM PC compatible 29 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 30 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 31 32 (vi) CURRENT APPLICATION DATA: 33 (A) APPLICATION NUMBER: US 08/921,060 34 (B) FILING DATE: 29-AUG-1997 35 (C) CLASSIFICATION: 36 37 (viii) ATTORNEY/AGENT INFORMATION: 38 (A) NAME: Teskin, Robin L. 39 (B) REGISTRATION NUMBER: 35,030 40 (C) REFERENCE/DOCKET NUMBER: 037003-0275463 41 42 (ix) TELECOMMUNICATION INFORMATION: 43 (A) TELEPHONE: 202-861-3000 44 (B) TELEFAX: 202-822-0944 45

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PATENT APPLICATION US/08/921,000A

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(2) INFORMATION FOR SEQ ID NO:1:
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(i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

63 64

65 66

67

68

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71 72

73

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48 49

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52

53

54 55

56 57

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

62 63 GGGAGCTTGG ATCGATCCTC TATGGTT

27

- (2) INFORMATION FOR SEQ ID NO:2:
- 2) 111 011 111
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 8540 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

78 79

81

87

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91

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98 99

GACGTCGCGG CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG 60 AGGCCGAGGC GGCCTCGGCC TCTGCATAAA TAAAAAAAAT TAGTCAGCCA TGCATGGGCC 120 GGAGAATGGG CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGGACT 180 ATGGTTGCTG ACTAATTGAG ATGCATGCTT TGCATACTTC TGCCTGCTGG GGAGCCTGGG 240 GACTTTCCAC ACCTGGTTGC TGACTAATTG AGATGCATGC TTTGCATACT TCTGCCTGCT 300 GGGGAGCCTG GGGACTTTCC ACACCCTAAC TGACACACAT TCCACAGAAT TAATTCCCCT 360 AGTTATTAAT AGTAATCAAT TACGGGGTCA TTAGTTCATA GCCCATATAT GGAGTTCCGC 420 GTTACATAAC TTACGGTAAA TGGCCCGCCT GGCTGACCGC CCAACGACCC CCGCCCATTG 480 ACGTCAATAA TGACGTATGT TCCCATAGTA ACGCCAATAG GGACTTTCCA TTGACGTCAA 540 TGGGTGGACT ATTTACGGTA AACTGCCCAC TTGGCAGTAC ATCAAGTGTA TCATATGCCA 600 AGTACGCCCC CTATTGACGT CAATGACGGT AAATGGCCCG CCTGGCATTA TGCCCAGTAC 660 ATGACCTTAT GGGACTTTCC TACTTGGCAG TACATCTACG TATTAGTCAT CGCTATTACC 720 ATGGTGATGC GGTTTTGGCA GTACATCAAT GGGCGTGGAT AGCGGTTTGA CTCACGGGGA 780 TTTCCAAGTC TCCACCCCAT TGACGTCAAT GGGAGTTTGT TTTGGCACCA AAATCAACGG 840 GACTTTCCAA AATGTCGTAA CAACTCCGCC CCATTGACGC AAATGGGCGG TAGGCGTGTA 900 CGGTGGGAGG TCTATATAAG CAGAGCTGGG TACGTGAACC GTCAGATCGC CTGGAGACGC 960 CATCACAGAT CTCTCACCAT GAGGGTCCCC GCTCAGCTCC TGGGGCTCCT GCTGCTCTGG 1020 CTCCCAGGTG CACGATGTGA TGGTACCAAG GTGGAAATCA AACGTACGGT GGCTGCACCA 1080 TCTGTCTTCA TCTTCCCGCC ATCTGATGAG CAGTTGAAAT CTGGAACTGC CTCTGTTGTG 1140 TGCCTGCTGA ATAACTTCTA TCCCAGAGAG GCCAAAGTAC AGTGGAAGGT GGATAACGCC 1200



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|-----|-------------|----------------------------|----------------|--------------|--------------|------------------------------|--------|
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| 100 | CTCCAATCGG | GTAACTCCCA | CCTCACCAAA | GCAGACTACG | AGAAACACAA | AGTCTACGCC 1 CAGGGGAGAG 1 | 320 |
| 101 | AGCCTCAGCA | GCACCCTGAC | CCTCACCTCC | CCCGTCACAA | AGAGCTTCAA | CAGGGGAGAG 1 GACAACATGC 1 | 380 |
| 102 | TGCGAAGTCA | CCCATCAGGG | A CCCTTTA CCA | ACTACCTAGA | CTGGATTCGT | GACAACATGC 1 GCCATCTGTT 1 | 440 |
| 103 | TGTTGAATTC | AGATCCGTTA | ACGGITACCA | ACTGTGCCTT | CTAGTTGCCA | GCCATCTGTT 1 TGTCCTTTCC 1 | 500 |
| 104 | GGCCGTGATA | TCTACGTATG | THE COURTE ACC | CTGGAAGGTG | CCACTCCCAC | TGTCCTTTCC 1 TCTGGGGGGGT 1 | .560 |
| 105 | | | | | | | |
| 106 | TAATAAAATG | AGGAAATTGC | CCCCCACGAT | TGGGAAGACA | ATAGCAGGCA | TGCTGGGGAT 1 CCCCCTATTG 1 | .680 |
| 107 | | | | | | | |
| 108 | GCGGTGGGCT | CTATGGAACC | CCCCCCTCCC | ATTATGCCCA | GTACATGACC | TTATGGGACT 1 | .800 |
| 109 | | | | | | | |
| 110 | TTCCTACTTG | GCAGTACATC | CCATACCGGT | TTGACTCACG | GGGATTTCCA | AGTCTCCACC 1 | L920 |
| 111 | | | | | | | |
| 112 | CCATTGACGT | CAATGGGAGI | ACCCADATGG | GCGGTAGGCG | TGTACGGTGG | GAGGTCTATA 2 ACCCGTCGAC 2 | 2040 |
| 113 | GTAACAACTC | CGCCCCATTG | CTCACATTCA | GTGATCAGCA | CTGAACACAG | ACCCGTCGAC 2 | 2100 |
| 114 | | | | | | | |
| 115 | ATGGGTTGGA | GCCTCATCTT | CCTCCCACCC | TCCTCCAAGA | GCACCTCTGG | GGGCACAGCG C | 2220 |
| 116 | | | | | | | |
| 117 | GCCCTGGGCT | GCCTGGTCAA | GGACIACTIC | CCGCCTGTCC | TACAGTCCTC | AGGACTCTAC CTACATCTGC | 2340 |
| 118 | | | | | | | |
| 119 | TCCCTCAGCA | GCGTGGTGAC | CGIGCCCICC | GTGGACAAGA | AAGCAGAGCC | CAAATCTTGT ACCGTCAGTC | 2460 |
| 120 | AACGTGAATC | ACAAGCCCAG | A CCCTCCCCA | GCACCTGAAC | TCCTGGGGGG | ACCGTCAGTC TGAGGTCACA | 2520 |
| 121 | GACAAAACTC | ACACATGCCC | ACCGIGCCCA | CTCATGATCT | CCCGGACCCC | TGAGGTCACA GTACGTGGAC | 2580 |
| 122 | TTCCTCTTCC | CCCCAAAACC | CAAGGACACC | CCTGAGGTCA | AGTTCAACTG | GTACGTGGAC CAGCACGTAC | 2640 |
| 123 | TGCGTGGTGG | TGGACGTGAG | CACGAAGAC | CCGCGGGAGG | AGCAGTACAA | CAGCACGTAC GGACTACAAG | 2700 |
| 124 | GGCGTGGAGG | TGCATAATGC | | CAGGACTGGC | TGAATGGCAA | GGACTACAAG CAAAGCCAAA | 2760 |
| 125 | CGTGTGGTCA | GCGTCCTCAC | CGTCCTGCACCC | CCCATCGAGA | AAACCATCTC | CAAAGCCAAA GCTGACCAGG | 2820 |
| 126 | TGCAAGGTCT | CCAACAAAGC | CCTCTACACC | CTGCCCCCAT | CCCGGGATGA | GCTGACCAGG CGCCGTGGAG | 2880 |
| 127 | GGGCAGCCCC | GAGAACCACA | CCTCCTCAAA | GGCTTCTATC | CCAGCGACAT | CGCCGTGGAG GCTGGACTCC | 2940 |
| 128 | | | | | | | |
| 129 | | | | | | | |
| 130 | | | | | | | |
| 131 | AACGTCTTC'I | CATGCTCCG1 | ATGAGGATCC | GTTAACGGTT | ACCAACTACC | TAGACTGGAT CCTTCTAGTT | 3180 |
| 132 | | | | | | | |
| 133 | TCGTGACAAC | ATGCGGCCG | CCCTCCCCCC | TGCCTTCCTT | GACCCTGGAA | GGTGCCACTC | 3300 |
| 134 | | | | | | | |
| 135 | | | | | | | |
| 136 | | | | | | | |
| 137 | GGCATGCTGG | 3 GGAIGCGGIC | r CTCAATTTC | TATTTGCAT | ATGAGAAAA | A AAGGAAAATT GATGCTTTAG | 3540 |
| 138 | CCCGATCCCC | AGCIIIGCI. | r AGTTGATTG | GCAAATGCGT | TGCCAAAAA | GATGCTTTAG CCAGAGCTGA | 3600 |
| 139 | AATTTTAACA | T CTCTCCACAC | 2 ATAAGGACA | A ACATTATTCA | A GAGGGAGTAC | CCAGAGCTGA CATCACCGAA | 3660 |
| 140 | AGACAGTGT. | T CICIGCACA | GCACAGCAT | r CTAGGGAGA | ATATGCTTG | CATCACCGAA GATAGAGAGG | 3720 |
| 141 | GACTCCTAAC | CCAGIGAGI | C ACCTTGGTA | A GGGCCAATC | r GCTCACACAC | GATAGAGAGG ACATTTGCTT | 3780 |
| 142 | GCCTGATTCC | CCCCACAGCCA | A TATAAGGTG | A GGTAGGATC | A GTTGCTCCT | ACATTTGCTT GATTTCGCGC | 3840 |
| 143 | GCAGGAGCCA | T TOTTO TO TOTTO CO. | A GCTTGGATA | G CTTGGACAG | C TCAGGGCTG | GATTTCGCGC TGCCATCATG | 3900 |
| 144 | CTGACATAG | T IGIGIIGGG | A GCGTGAAGG | C TGGTAGGAT | r TTATCCCCG | TGCCATCATG CAAGAACGGA | 3960 |
| 145 | CAAACTTGA | T TON ACTION | T CGTCGCCGT | G TCCCAAAAT | A TGGGGATTG | G CAAGAACGGA T GACCACAACC | 4020 |
| 146 | GTTCGACCA | T LGWWCIGCW | T CAGGAACGA | G TTCAAGTAC | T TCCAAAGAA' | T GACCACAACC G GTTCTCCATT | 4080 |
| 147 | GACCTACCC | C ANGGTANAC | A GAATCTGGT | G ATTATGGGT. | A GGAAAACCT | G GTTCTCCATT | 4140 |
| 148 | TCTTCAGTG | S AMGGIAMAC N NTCCNCCTT | T AAAGGACAG | A ATTAATATA | G TTCTCAGTA | G AGAACTCAAA T AAGACTTATT | 4200 |
| 149 | CCTGAGAAC | M MICGACCII | A TTTTCTTGC | C AAAAGTTTG | G ATGATGCCT | T AAGACTTATT G CAGTTCTGTT | 4260 |
| 150 | GAACCACCA | C ANDUCACIO | G TAAAGTAGA | C ATGGTTTGG | A TAGTCGGAG | G CAGTTCTGTT G GATCATGCAG | 4320 |
| 151 | GAACAACCG | C CCAUCYAUC | A ACCAGGCCA | C CTTAGACTC | T TTGTGACAA | G GATCATGCAG | 4380 |
| 152 | TACCAGGAA | G CCAIGAAIC | A ACCROOOL | | | | |

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|-----|------------------|--|-------------------|---------------|--------------|---------------|-------|
| 153 | GAATTTGAAA | GTGACACGTT | TTTCCCAGAA | ATTGATTTGG | GGAAATATAA | ACTTCTCCCA | 4440 |
| 154 | 03 3 M3 0003 0 | CCCTCCTCTC | TCACCTCCAG | GAGGAAAAAG | GCATCAAGTA | TAAGITIGAA | 4500 |
| 155 | CINCINA CCA CA | $\lambda C \lambda \lambda \lambda C \lambda C T \Delta$ | ACAGGAAGAT | GCTTTCAAGT | TCTCTGCTCC | CCTCCTAAAG | 4500 |
| 156 | max maax mmm | ጥጥ እጥ እር እርር | ATCCCACTTT | TGCTGGCTTT | AGATCAGCCT | CGACIGIGCC | 4020 |
| 157 | | CACCCATCTC | TTGTTTGCCC | CTCCCCCGTG | CCTTCCTTGA | CCCTGGAAGG | 4000 |
| 158 | maday amada | አ ርጥርጥርርጥ ጥ ጥ | CCTAATAAAA | TGAGGAAATT | GCATCGCATT | GICIGAGIAG | 4/40 |
| 159 | CHICHON THUCH | አጥጥርጥርርርርር | CTCCCCTCCC | GCAGGACAGC | AAGGGGGAGG | ATTGGGAAGA | 4000 |
| 160 | CA A MA CCA CC | CATCCTCCCC | ATGCGGTGGG | CTCTATGGAA | CCAGCTGGGG | CICGAGCIAC | 4000 |
| 161 | ma communicom | ጥርጥር እ አጥጥጥር | TTDTTTCCAT | AATGAGAAAA | AAAGGAAAAT | TAATTITAAC | 4920 |
| 162 | A COA A TITO A C | ጥ ልረጥጥርልጥጥር | AGCAAATGCG | TTGCCAAAAA | GGATGCTTTA | GAGACAGIGI | 4900 |
| 163 | mamamaa A a A | CATTAACCACA | ΔΔCΔͲͲΔͲͲϹ | AGAGGGAGTA | CCCAGAGCTG | AGACTCCTAA | 2040 |
| 164 | CCCA CTCA CT | CCCACACCAT | TCTAGGGAGA | AATATGCTTG | TCATCACCGA | AGCCTGATIC | 2100 |
| | COMP CROCOL | CACCMTCCTA | ACCCCCAATC | TGCTCACACA | GGATAGAGAG | CCAGGAGCC | 5100 |
| 165 | 3 CCCC3 C3 CC | አጥአጥአ አርርጥር | ACCTACCATC | AGTTGCTCCT | CACATTIGCT | TCTGACATAG | 5220 |
| 166 | mmamammacaa | አሮሮሞሞሮሮሽሞሮ | CATCCTCTAT | GGTTGAACAA | GATGGATTGC | ACGCAGGIIC | 5200 |
| 167 | magaaaaaaa | TOCOTOCACA | CCCTATTCGG | CTATGACTGG | GCACAACAGA | CAATCGGCIG | 2240 |
| 168 | CINCIDED A TICCO | CCCGTGTTCC | GGCTGTCAGC | GCAGGGGCGC | CCGGTTCTTT | TTGTCAAGAC | 5400 |
| 169 | CON COMORCO | CCTCCCCTCA | ATGAACTGCA | GGACGAGGCA | GCGCGGCTAT | CGIGGCIGGC | 2400 |
| 170 | GR GGR GGGGG | CERTCHTTCCC | CACCTCTCCT | CGACGTTGTC | ACTGAAGCGG | GAAGGGACIG | 5520 |
| 171 | CAUGAUGUGU | CCCCAACTCC | CGCGCCAGGA | TCTCCTGTCA | TCTCACCTTG | CTCCTGCCGA | 5580 |
| 172 | GCTGCTATTG | AUCAUCCUTC | ATCCAATCCG | GCGGCTGCAT | ACGCTTGATC | CGGCTACCTG | 5640 |
| 173 | GAAAGTATCC | AICAIGGCIG | AACATCCCAT | CGAGCGAGCA | CGTACTCGGA | TGGAAGCCGG | 5700 |
| 174 | CCCATTCGAC | CACCAAGCGA | TCCACCAAGA | GCATCAGGGG | CTCGCGCCAG | CCGAACTGTT | 5760 |
| 175 | TCTTGTCGAT | TAGGGGGGGG | TCCCCGACGG | CGAGGATCTC | GTCGTGACCC | ATGGCGATGC | 5820 |
| 176 | CGCCAGGCTC | AAGGCGCGCA | TCCANATCC | CCCCTTTTCT | GGATTCATCG | ACTGTGGCCG | 5880 |
| 177 | CTGCTTGCCG | AATATCATGG | A TO COARACTOO | ACCCTTCCCT | ACCCGTGATA | TTGCTGAAGA | 5940 |
| 178 | GCTGGGTGTG | GCGGACCGCT | ACCCCTTCCT | CCTCCTTTAC | GGTATCGCCG | CTCCCGATTC | 6000 |
| 179 | GCTTGGCGGC | GAATGGGCTG | ACCECTICCT | CGAGTTCTTC | TGAGCGGGAC | TCTGGGGTTC | 6060 |
| 180 | GCAGCGCATC | GCCTTCTATC | GCCTTCTTGA | CCATCACGAG | ATTTCGATTC | CACCGCCGCC | 6120 |
| 181 | GAAATGACCG | ACCAAGCGAC | GCCCAACCIG | TTCCCCCACC | CCGCCTGGAT | GATCCTCCAG | 6180 |
| 182 | TTCTATGAAA | GGTTGGGCTT | CGGAATCGII | CACCCCAACT | TGTTTATTGC | AGCTTATAAT | 6240 |
| 183 | CGCGGGGATC | TCATGCTGGA | GITCIICGCC | TTCACAAATA | AAGCATTTT | TTCACTGCAT | 6300 |
| 184 | GGTTACAAAT | AAAGCAATAG | A CHICACAAA I | | ATGTCTGGAT | CGCGGCCGCG | 6360 |
| 185 | TCTAGTTGTG | GTTTGTCCAA | ACTUATURAL | CIMICITATE | TCCTGTGTGA | AATTGTTATC | 6420 |
| 186 | ATCCCGTCGA | GAGCTTGGCG | TAATCATGGI | CAIAGCIGII | GTGTAAAGCC | TGGGGTGCCT | 6480 |
| 187 | CGCTCACAAT | TCCACACAAC | ATACGAGCCG | TO COCOTO CT | CCCCCCTTTC | CAGTCGGGAA | 6540 |
| 188 | AATGAGTGAG | CTAACTCACA | TTAATTGCGT | CCCA ACCCCC | GCCCACAGAGGC | GGTTTGCGTA | 6600 |
| 189 | ACCTGTCGTG | CCAGCTGCAT | TAATGAATCG | A CTTCCCTTCCC | CTCCCTCCTT | CGGCTGCGGC | 6660 |
| 190 | TTGGGCGCTC | TTCCGCTTCC | TCGCTCACTG | MACCCCTTATC | CACAGAATCA | GGGGATAACG | 6720 |
| 191 | GAGCGGTATC | AGCTCACTCA | AAGGCGGTAA | ANNACCCCAC | CACACATION | GGGGATAACG | 6780 |
| 192 | CAGGAAAGAA | CATGTGAGCA | AAAGGCCAGC | AAAAGGCCAG | TCACAAAAAA | AAGGCCGCGT | 6840 |
| 193 | TGCTGGCGTT | TTTCCATAGG | CTCCGCCCCC | CIGACGAGCA | | CGACGCTCAA | 6900 |
| 194 | GTCAGAGGTG | GCGAAACCCG | ACAGGACTAT | AAAGATACCA | ATACCTCTCCC | CCTGGAAGCT | 6960 |
| 195 | CCCTCGTGCG | CTCTCCTGTI | CCGACCCTGC | CGCTTACCGC | CUNTCACT | GCCTTTCTCC | 7020 |
| 196 | CTTCGGGAAG | CGTGGCGCTT | TCTCAATGCT | CACGCTGTAG | TCACCCCCAC | TCGGTGTAGG | 7080 |
| 197 | TCGTTCGCTC | CAAGCTGGGC | TGTGTGCACG | AACCCCCCGI | CCACCCCGAC | CGCTGCGCCT | 7140 |
| 198 | TATCCGGTAA | CTATCGTCTT | GAGTCCAACC | CGGTAAGACA | CGACTATCO | CCACTGGCAG | 7200 |
| 199 | CAGCCACTGG | TAACAGGATI | AGCAGAGCGA | GGTATGTAGG | , CGGIGCIMCE | GAGTTCTTGA | 7260 |
| 200 | AGTGGTGGCC | TAACTACGGC | TACACTAGA | GGACAGTATT | . IGGIAICIG(| GCTCTGCTGA | 7320 |
| 201 | AGCCAGTTAC | CTTCGGAAAA | AGAGTTGGTA | GCTCTTGATC | , CGGCAAACAA | ACCACCGCTG | 7380 |
| 202 | GTAGCGGTGG | TTTTTTTGT | TGCAAGCAGC | AGATTACGCC | CAGAAAAAAA | GGATCTCAAG | 7440 |
| 203 | AAGATCCTTT | GATCTTTTCT | R ACGGGGTCTC | ACGCTCAGTC | GAACGAAAA | TCACGTTAAG | 7500 |
| 204 | | ը «አጥሮአሮአ ጥ ሞን | \ | TCTTCACCI' | GAICCITTA | / WWIIWWWWI | / 500 |
| 205 | GAAGTTTTA | ATCAATCTA | A AGTATATATO | AGTAAACTTO | GTCTGACAG. | TACCAATGCT | , 560 |
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| 206 | ͲΔΔͲϹΔϾͲϾΔ | GGCACCTATC | TCAGCGATCT | GTCTATTTCG | TTCATCCATA | GTTGCCTGAC | 7620 |
| 207 | TCCCCGTCGT | GTAGATAACT | ACGATACGGG | AGGGCTTACC | ATCTGGCCCC | AGTGCTGCAA | 7680 |
| 208 | TGATACCGCG | AGACCCACGC | TCACCGGCTC | CAGATTTATC | AGCAATAAAC | CAGCCAGCCG | 7740 |
| 209 | GAAGGGCCGA | GCGCAGAAGT | GGTCCTGCAA | CTTTATCCGC | CTCCATCCAG | TCTATTAATT | 7800 |
| 210 | GTTGCCGGGA | AGCTAGAGTA | AGTAGTTCGC | CAGTTAATAG | TTTGCGCAAC | GTTGTTGCCA | 7860 |
| 211 | TTGCTACAGG | CATCGTGGTG | TCACGCTCGT | CGTTTGGTAT | GGCTTCATTC | AGCTCCGGTT | 7920 |
| 212 | CCCAACGATC | AAGGCGAGTT | ACATGATCCC | CCATGTTGTG | CAAAAAAGCG | GTTAGCTCCT | 7980 |
| 213 | TCGGTCCTCC | GATCGTTGTC | AGAAGTAAGT | TGGCCGCAGT | GTTATCACTC | ATGGTTATGG | 8040 |
| 214 | CAGCACTGCA | TAATTCTCTT | ACTGTCATGC | CATCCGTAAG | ATGCTTTTCT | GTGACTGGTG | 8100 |
| 214 | A COLUCTOR | CAACTCATTC | TCACAATAGT | GTATGCGGCG | ACCGAGTTGC | TCTTGCCCGG | 8160 |

21 AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG ACCGAGTTGC TC'I". 215 CGTCAATACG GGATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC ATCATTGGAA 8220 216 AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT GTTGAGATCC AGTTCGATGT 8280 217 AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT 8340 218

GAGCAAAAAC AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT 8400 219 GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA 8460 220

TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAAACA AATAGGGGTT CCGCGCACAT 8520 221 222

TTCCCCGAAA AGTGCCACCT

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9209 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

237 238

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223

224 225

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230 231

232

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

239 GACGTCGCGG CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG 240 AGGCCGAGGC GGCCTCGGCC TCTGCATAAA TAAAAAAAAT TAGTCAGCCA TGCATGGGGC 120 GGAGAATGGG CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGGACT 180 241 ATGGTTGCTG ACTAATTGAG ATGCATGCTT TGCATACTTC TGCCTGCTGG GGAGCCTGGG 240 242 300 GACTTTCCAC ACCTGGTTGC TGACTAATTG AGATGCATGC TTTGCATACT TCTGCCTGCT 243 360 GGGGAGCCTG GGGACTTTCC ACACCCTAAC TGACACACAT TCCACAGAAT TAATTCCCCT 244 AGTTATTAAT AGTAATCAAT TACGGGGTCA TTAGTTCATA GCCCATATAT GGAGTTCCGC 420 245 GTTACATAAC TTACGGTAAA TGGCCCGCCT GGCTGACCGC CCAACGACCC CCGCCCATTG 480 246 ACGTCAATAA TGACGTATGT TCCCATAGTA ACGCCAATAG GGACTTTCCA TTGACGTCAA 247 TGGGTGGACT ATTTACGGTA AACTGCCCAC TTGGCAGTAC ATCAAGTGTA TCATATGCCA 600 248 AGTACGCCCC CTATTGACGT CAATGACGGT AAATGGCCCG CCTGGCATTA TGCCCAGTAC 249 ATGACCTTAT GGGACTTTCC TACTTGGCAG TACATCTACG TATTAGTCAT CGCTATTACC 250 ATGGTGATGC GGTTTTGGCA GTACATCAAT GGGCGTGGAT ACCGGTTTGA CTCACGCGGA 251 TTTCCAAGTC TCCACCCCAT TGACGTCAAT GGGAGTTTGT TTTGGCACCA AAATCAACGG 252 GACTTTCCAA AATGTCGTAA CAACTCCGCC CCATTGACGC AAATGGGCGG TAGGCGTGTA 253 CGGTGGGAGG TCTATATAAG CAGAGCTGGG TACGTGAACC GTCAGATCGC CTGGAGACGC 960 CATCACAGAT CTCTCACTAT GGATTTTCAG GTGCAGATTA TCAGCTTCCT GCTAATCAGT 1020 255 GCTTCAGTCA TAATGTCCAG AGGACAAATT GTTCTCTCCC AGTCTCCAGC AATCCTGTCT 1080 256 GCATCTCCAG GGGAGAAGGT CACAATGACT TGCAGGGCCA GCTCAAGTGT AAGTTACATC 1140 257 CACTGGTTCC AGCAGAAGCC AGGATCCTCC CCCAAACCCT GGATTTATGC CACATCCAAC

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